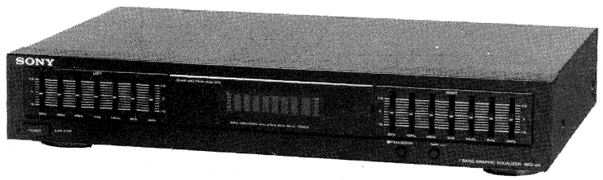
SEQ-411

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model



SPECIFICATIONS

Inputs	LINE IN: Phono jacks, 245 mV (–10 dBs), 50 kohms TAPE IN: Phono jacks, 245 mV (–10 dBs), 50 kohms
Outputs	LINE OUT: Phono jacks, 245 mV (–10 dBs), Load impedance: more than 10 kohms TAPE REC OUT: Phono jacks, 245 mV (–10 dBs), Load impedance: more than 10 kohms
Graphic equalizer	Boost/cut range: ±10 dB Center frequencies: 60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.4 kHz, 6 kHz, 14 kHz
Frequency response (with EQUALIZATION on)	LINE IN: 20 Hz to 40 kHz $^{+0}_{-1.5}$ dB
Harmonic distortion	LINE IN: Less than 0.008% (at 1 kHz, 1 V output)
Signal-to-noise ratio (with EQUALIZATION on)	LINE IN: Better than 100 dB (A network, 1 V output)
Power requirements	U.S.A. model: 120 V AC, 60 Hz U.K. model: 240 V AC, 50/60 Hz Australian model: 240 V AC, 50/60 Hz
Power consumption	5 W
AC outlet	U.S.A. model: 1 unswitched, 120 W max. U.K. model: 1 unswitched, 100 W max.
Dimensions	Approx. 430 x 80 x 265 mm (w/h/d) (17 x 3¼ x 9½ inches)
Weight	Approx. 2.5 kg (5 lb 8 oz)
Accessories supplied	Audio connecting cord (2)

Design and specifications subject to change without notice.

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

MICROFILM

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

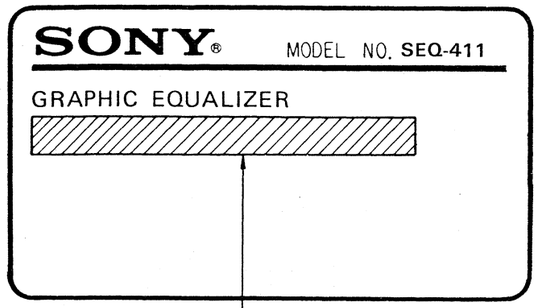
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

GRAPHIC EQUALIZER

SONY®

– MODEL IDENTIFICATION –

(Specification Label)



US, Canadian model: AC120V 60Hz 5W
AEP, Germany model: AC220-230V~50/60Hz 5W
UK, Australian model: AC240V~50/60Hz 5W
E model: AC110-120/220-240V~50/60Hz 5W

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

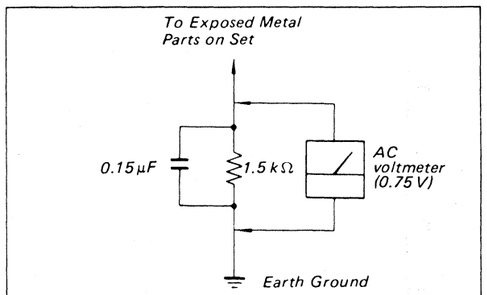


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1
DIAGRAMS

1-1. SCHEMATIC DIAGRAM

Note on Schematic Diagram:

Note:

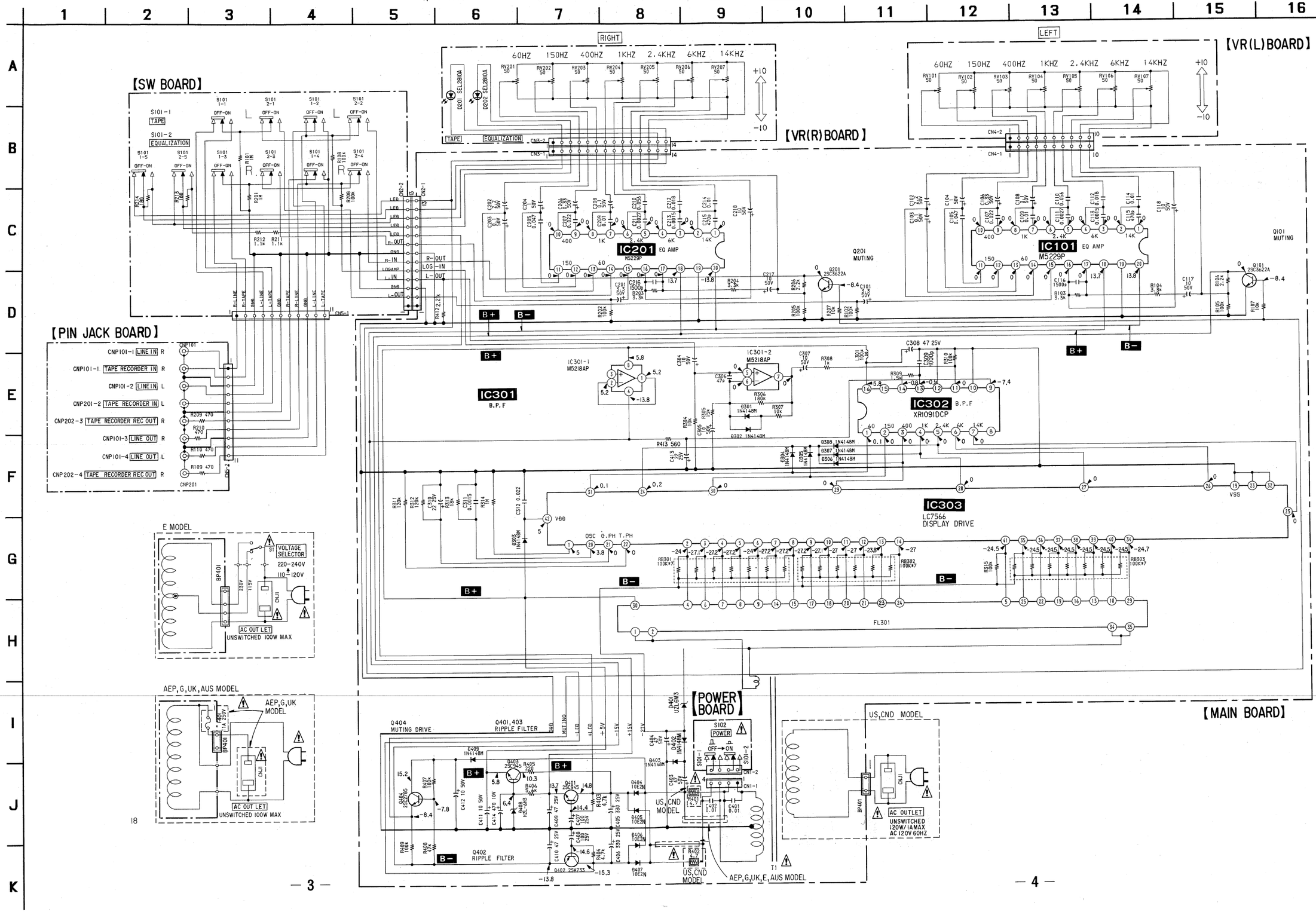
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.

- ⚠ : nonflammable resistor.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- B− : B− Line
- Voltage is dc with respect to ground
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.

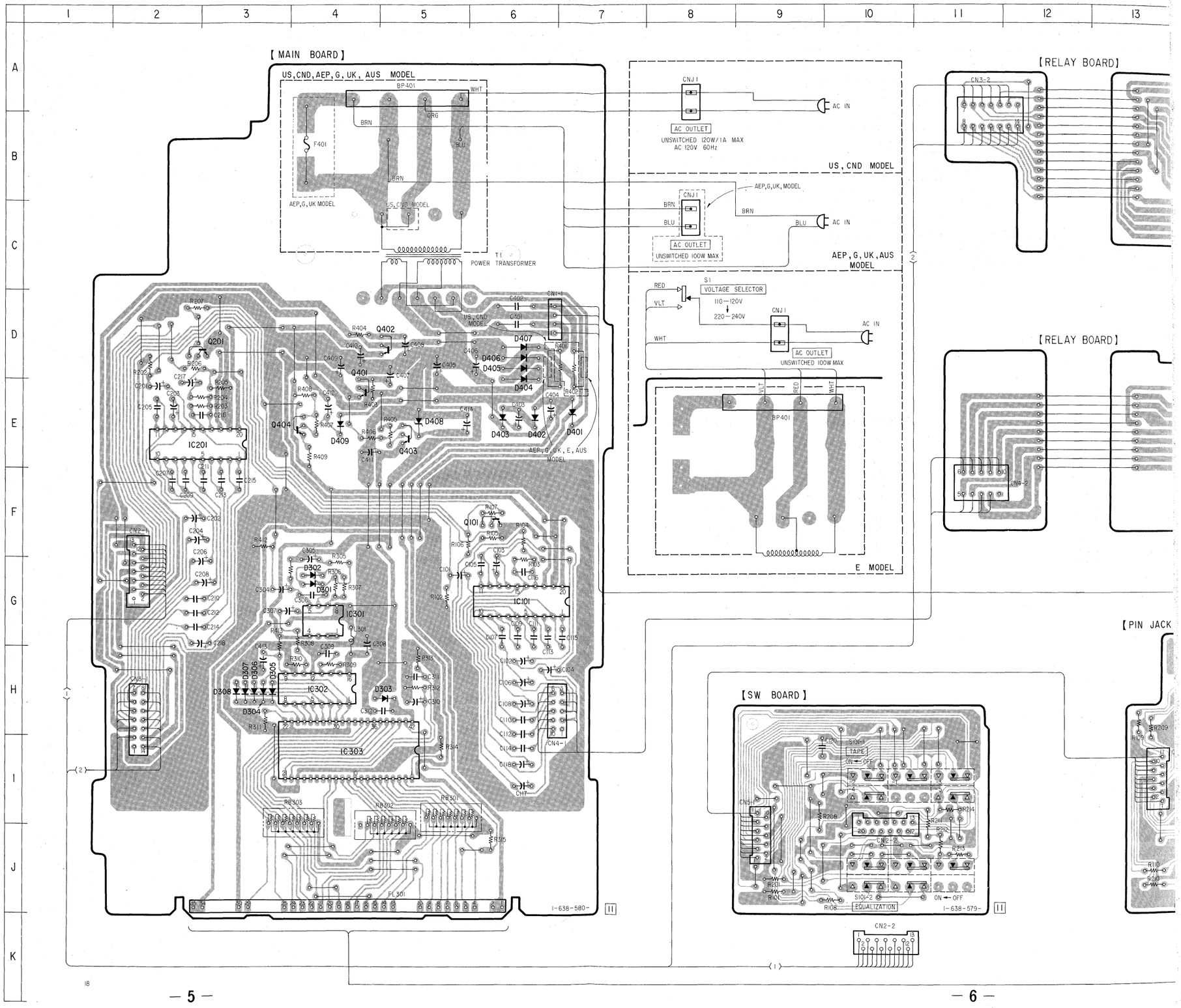
CND : Canadian
G : Germany
AUS : Australian



1-2. PRINTED WIRING BOARDS

● **Semiconductor Location**

Ref. No.	Location
D201	A-17
D202	A-15
D301	G-4
D302	G-4
D303	H-5
D304	H-3
D305	H-3
D306	H-3
D307	H-3
D308	H-3
D401	E-7
D402	E-6
D403	E-6
D404	E-6
D405	D-6
D406	D-6
D407	D-6
D408	E-5
D409	E-4
IC101	G-6
IC201	E-3
IC301	G-4
IC302	H-4
IC303	I-4
Q101	F-6
Q201	D-2
Q401	E-4
Q402	D-5
Q403	E-5
Q404	E-4



CND : Canadian
G : Germany
AUS : Australian

Note on Printed Wiring Board:

Note:

- ○—— : parts extracted from the component side.

9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19

AC IN
MAX
US, CND MODEL
AEP, G, UK, MODEL
BRN
BLU
AC IN
AEP, G, UK, AUS MODEL
E SELECTOR
120V
240V
CNJ1
AC IN
AC OUTLET
UNSWITCHED 100W MAX
VLT
RED
WHT
BP401
E MODEL

【RELAY BOARD】

CN3-2

【VR (R) BOARD】

D202 EQUALIZATION
D201 TAPE
1-638-578-
RIGHT
RV201 60Hz
RV202 150Hz
RV203 400Hz
RV204 1kHz
RV205 2.4kHz
RV206 6kHz
RV207 14kHz

【RELAY BOARD】

CN3-2

【VR (L) BOARD】

RV107 14kHz
RV106 6kHz
RV105 2.4kHz
RV104 1kHz
RV103 400Hz
RV102 150Hz
RV101 60Hz
LEFT
1-638-577-

【SW BOARD】

S101 TAPE ON → OFF
CN5-1
R208
R211
R214
R212
R213
R210
R209
R207
S101-2 EQUALIZATION
ON → OFF
1-638-579-
CN2-2

【PIN JACK BOARD】

CN5-2
L REC OUT R
L IN R
CNP201 TAPE RECORDER
CNP101 LINE
1-638-576-

【POWER BOARD】

S102 POWER
OFF → ON
CN1-2
1-638-581-

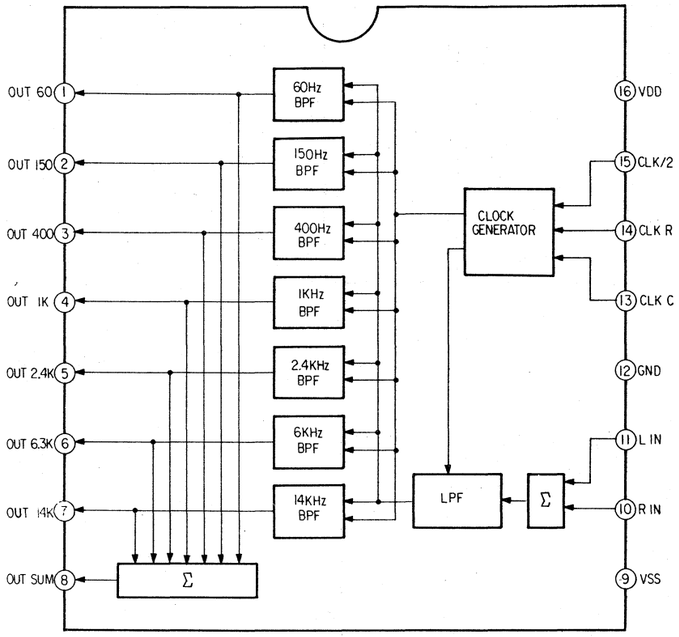
FL301 INDICATOR TUBE, FLUORESCENT

8G 7G 6G 5G 4G 3G 2G 1G

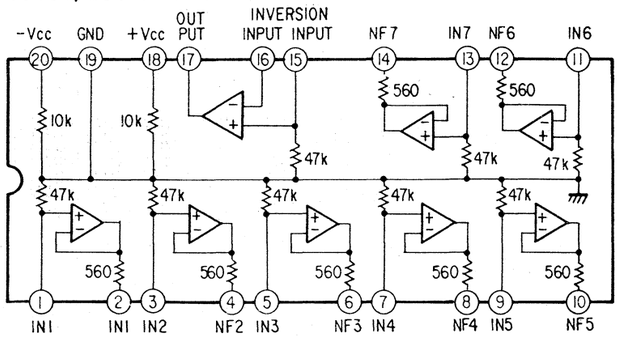
F F NC NC NC S14 1G NC NC NC 2G S13 S12 3G S11 S10 4G S9 S8 5G S7 S6 6G NC NC 7G S5 S4 S3 S2 8G S1 NC F F
56 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

1-3. IC BLOCKDIAGRAMS

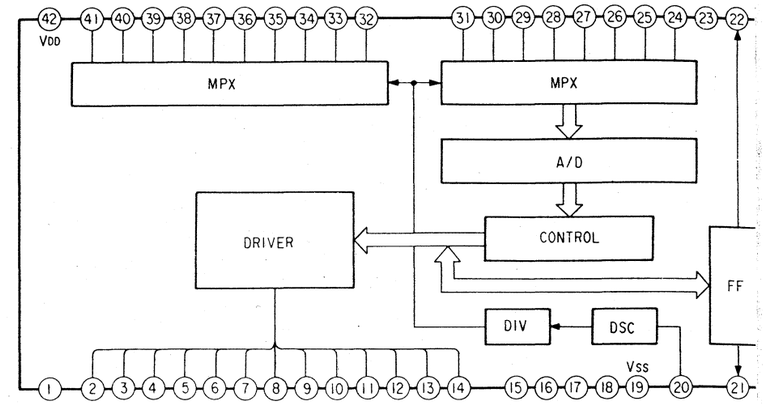
IC302 XR1091DCP



IC101, 201 M5229P

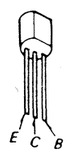


IC303 LC7566

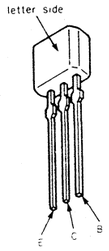


• Semiconductor Lead Layouts

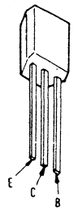
2SA733-QP
2SC945-P



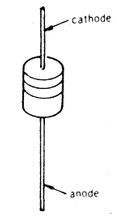
2SC2785-FEK



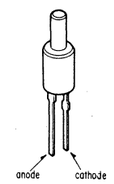
2SC3622A-LK

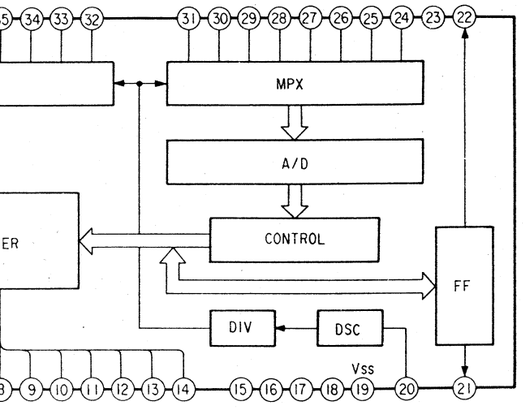


1SS120
HZS6B3L
HZS6C3L



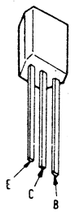
2LP-444B-51



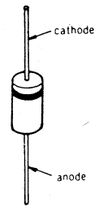


5-FEK

2SC3622A-LK



10E2N



4B-51

SECTION 2
EXPLODED VIEWS

NOTE:

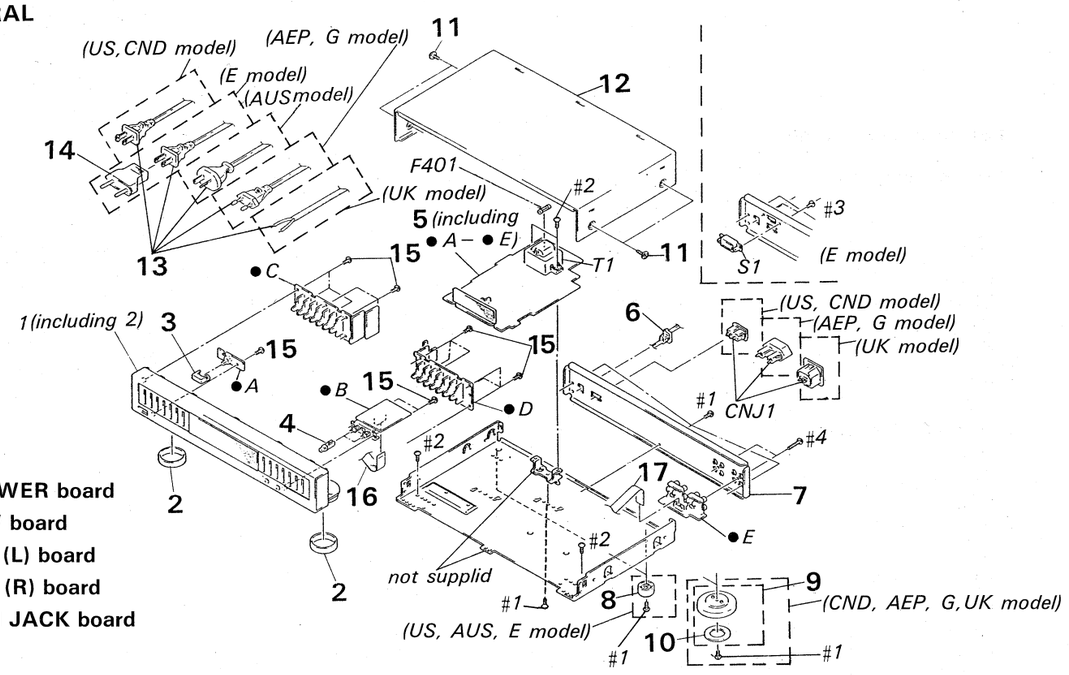
- −XX, −X mean standardized parts, so they may have some differences from the original one.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE(WHITE)...(RED)
  ↑ ↑
  Part's Color Cabinet's Color
- Hardware (#mark) list is given in the last of this parts list.

CND : Canadian
G : Germany
AUS : Australian

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifé.

2-1. GENERAL



- ● A : POWER board
- ● B : SW board
- ● C : VR (L) board
- ● D : VR (R) board
- ● E : PIN JACK board

Ref. No.	Part No.	Description	Remark
1	X-4941-596-1	PANEL ASSY, FRONT (AEP, G, UK, AUS, E)	
1	X-4941-595-1	PANEL ASSY, FRONT (US, CND)	
2	* 4-929-030-11	RING (DIA. 58A), ORNAMENTAL (AEP, G, UK AUS, E)	
3	3-354-932-01	BUTTON (POWER)	
4	4-931-926-01	BUTTON (B)	
5	* A-4343-064-A	MAIN BOARD, CONPLETE (US, CND)	
5	* A-4343-065-A	MAIN BOARD, COMPLETE (E)	
5	* A-4343-066-A	MAIN BOARD, CONPLETE (AUS)	
5	* A-4343-067-A	MAIN BOARD, COMPLETE (AEP, G, UK)	
6	* 3-703-244-00	BUSHING (2104), CORD (AEP, G, UK, AUS)	
6	3-703-571-11	BUSHING(S) (4516), CORD (US, CND, E)	
7	* 4-944-796-21	PANEL, BACK (G)	
7	* 4-944-796-31	PANEL, BACK (AEP)	
7	* 4-944-796-01	PANEL, BACK (US, CND)	
7	* 4-944-796-11	PANEL, BACK (UK)	
7	* 4-944-796-41	PANEL, BACK (E)	
7	* 4-944-796-51	PANEL, BACK (AUS)	
8	4-927-849-01	FOOT (US, AUS, E)	
9	X-4885-935-1	FOOT ASSY (AEP, G, UK)	
9	X-4911-201-1	FOOT ASSY (CND)	

Ref. No.	Part No.	Description	Remark
10	4-923-836-11	CUSHION (CND, AEP, G, UK)	
11	3-704-366-01	SCREW (CASE) (M3X8)	
12	4-923-457-01	CASE	
13	⚠ 1-555-750-00	CORD, POWER (AEP, G)	
13	⚠ 1-558-945-11	CORD, POWER (POLAR. SPT-1) (US, CND)	
13	⚠ 1-559-912-11	CORD, POWER (AUS)	
13	⚠ 1-551-188-XX	CORD, POWER (E)	
13	⚠ 1-556-035-00	CORD, POWER (UK)	
14	⚠ 1-569-007-11	ADAPTER, CONVERSION 2P (E)	
15	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
16	1-590-036-11	WIRE, FLAT TYPE (13 CORE)	
17	1-575-666-11	WIRE, FLAT TYPE (11 CORE)	
1-CNJ1	⚠ 1-526-794-11	OUTLET, AC (AEP, G)	
1-CNJ1	⚠ 1-526-751-00	OUTLET, AC (UK)	
1-CNJ1	⚠ 1-526-882-00	OUTLET, AC (US, CND, E)	
1-F401	⚠ 1-532-078-00	FUSE, TIME-LAG (T1A/250V) (AEP, G, UK)	
1-S1	⚠ 1-570-046-21	SWITCH, VOLTAGE CHANGE (E)	
1-T1	⚠ 1-450-589-11	TRANSFORMER, POWER (US, CND)	
1-T1	⚠ 1-450-590-11	TRANSFORMER, POWER (AEP, G, UK, AUS)	
1-T1	⚠ 1-450-591-11	TRANSFORMER, POWER (E)	

SECTION 3
ELECTRICAL PARTS LIST

MAIN | PIN JACK | VR (L) / (R) | SW | POWER

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- −XX, −X mean standardized parts, so they may have some differences from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal Oxide-film resistor
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA··· : μA···, uPA··· : μPA···,
  uPB··· : μPB···, uPC··· : μPC···,
  uPD··· : μPD···
- CAPACITORS
  uF : μF
- COILS
  uH : μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

CND : Canadian G : Germany AUS : Australian

Ref. No.	Part No.	Description	Remark
	* A-4343-067-A	MAIN BOARD, COMPLETE	
		**********	
		PIN JACK BOARD	
		VR(L) BOARD	
		VR(R) BOARD	
		SW BOARD	
		POWER BOARD	
	1-533-233-11	HOLDER, FUSE (AEP, G, UK)	
	1-535-416-00	TERMINAL (AEP, G, UK)	
	* 1-573-025-11	PIN, CONNECTOR (PC BOARD) 10P	
	* 1-573-027-11	SOCKET, CONNECTOR (PC BOARD) 10P	
	* 1-573-189-11	SOCKET, CONNECTOR (PC BOARD) 14P	
	* 1-573-190-11	PIN, CONNECTOR (PC BOARD) 14P	
		< BASE POST >	
BP401	1-535-139-00	BASE POST 22MM (10MM PITCH) 2P (US, CND AEP, G, UK, AUS)	
BP401	1-535-141-00	BASE POST 22MM (10MM PITCH) 4P (E)	
		< CAPACITOR >	
C101	1-123-382-00	ELECT 3.3uF 20% 100V	
C102	1-124-257-00	ELECT 2.2uF 20% 50V	
C103	1-124-463-00	ELECT 0.1uF 20% 50V	
C104	1-126-301-11	ELECT 1uF 20% 50V	
C105	1-136-161-00	FILM 0.047uF 5% 50V	
C106	1-124-252-00	ELECT 0.33uF 20% 50V	
C107	1-136-157-00	FILM 0.022uF 5% 50V	
C108	1-124-463-00	ELECT 0.1uF 20% 50V	
C109	1-136-153-00	FILM 0.01uF 5% 50V	
C110	1-161-060-00	CERAMIC 0.056uF 10% 25V	
C111	1-130-476-00	MYLAR 0.0027uF 5% 50V	
C112	1-136-156-00	FILM 0.018uF 5% 50V	
C113	1-130-473-00	MYLAR 0.0015uF 5% 50V	
C114	1-136-153-00	FILM 0.01uF 5% 50V	
C115	1-102-114-00	CERAMIC 470PF 10% 50V	
C116	1-102-119-00	CERAMIC 1500PF 10% 50V	
C117	1-124-907-11	ELECT 10uF 20% 50V	
C118	1-124-907-11	ELECT 10uF 20% 50V	
C201	1-123-382-00	ELECT 3.3uF 20% 100V	
C202	1-124-257-00	ELECT 2.2uF 20% 50V	
C203	1-124-463-00	ELECT 0.1uF 20% 50V	
C204	1-126-301-11	ELECT 1uF 20% 50V	
C205	1-136-161-00	FILM 0.047uF 5% 50V	
C206	1-124-252-00	ELECT 0.33uF 20% 50V	
C207	1-136-157-00	FILM 0.022uF 5% 50V	
C208	1-124-463-00	ELECT 0.1uF 20% 50V	
C209	1-136-153-00	FILM 0.01uF 5% 50V	
C210	1-161-060-00	CERAMIC 0.056uF 10% 25V	
C211	1-130-476-00	MYLAR 0.0027uF 5% 50V	
C212	1-136-156-00	FILM 0.018uF 5% 50V	
C213	1-130-473-00	MYLAR 0.0015uF 5% 50V	
C214	1-136-153-00	FILM 0.01uF 5% 50V	
C215	1-102-114-00	CERAMIC 470PF 10% 50V	
C216	1-102-119-00	CERAMIC 1500PF 10% 50V	
C217	1-124-907-11	ELECT 10uF 20% 50V	
C218	1-124-907-11	ELECT 10uF 20% 50V	
C304	1-124-907-11	ELECT 10uF 20% 50V	
C305	1-124-907-11	ELECT 10uF 20% 50V	
C306	1-162-215-31	CERAMIC 47PF 5% 50V	
C307	1-124-907-11	ELECT 10uF 20 50V	
C308	1-124-477-11	ELECT 47uF 20% 25V	
C309	1-102-074-00	CERAMIC 0.001uF 10% 50V	
C310	1-126-233-11	ELECT 22uF 20% 50V	
C311	1-102-119-00	CERAMIC 1500PF 10% 50V	
C312	1-161-055-00	CERAMIC 0.022uF 10% 50V	
C401	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C402	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C403	1-124-910-11	ELECT 47uF 20% 50V	

MAIN | PIN JACK | VR (L) / (R) | SW | POWER

Ref. No.	Part No.	Description				Remark
C404	1-124-910-11	ELECT	47uF	20%	50V	
C405	1-124-479-11	ELECT	330uF	20%	25V	
C406	1-124-479-11	ELECT	330uF	20%	25V	
C407	1-124-478-11	ELECT	100uF	20%	25V	
C408	1-124-478-11	ELECT	100uF	20%	25V	
C409	1-124-477-11	ELECT	47uF	20%	25V	
C410	1-124-477-11	ELECT	47uF	20%	25V	
C411	1-124-907-11	ELECT	10uF	20%	50V	
C412	1-124-907-11	ELECT	10uF	20%	50V	
C413	1-126-233-11	ELECT	22uF	20%	50V	
C414	1-124-472-11	ELECT	470uF	20%	10V	
		< CONNECTOR >				
CN1-1	* 1-564-507-11	PLUG, CONNECTOR 4P				
CN2-1	* 1-568-832-11	SOCKET, CONNECTOR 13P				
CN2-2	* 1-568-832-11	SOCKET, CONNECTOR 13P				
CN5-1	* 1-568-830-11	SOCKET, CONNECTOR 11P				
CN5-2	* 1-568-830-11	SOCKET, CONNECTOR 11P				
CNP101	1-565-258-11	JACK, PIN 4P (LINE)				
CNP201	1-565-258-11	JACK, PIN 4P (TAPE RECORDER)				
		< DIODE >				
D201	8-719-989-15	LED	SLP-444B-51 (TAPE)			
D202	8-719-989-15	LED	SLP-444B-51 (EQUALIZATION)			
D301	8-719-912-20	DIODE	1SS120			
D302	8-719-912-20	DIODE	1SS120			
D303	8-719-912-20	DIODE	1SS120			
D304	8-719-912-20	DIODE	1SS120			
D305	8-719-912-20	DIODE	1SS120			
D306	8-719-912-20	DIODE	1SS120			
D307	8-719-912-20	DIODE	1SS120			
D308	8-719-912-20	DIODE	1SS120			
D401	8-719-933-38	DIODE	HZS6B3L			
D402	8-719-912-20	DIODE	1SS120			
D403	8-719-912-20	DIODE	1SS120			
D404	8-719-200-77	DIODE	10E2N			
D405	8-719-200-77	DIODE	10E2N			
D406	8-719-200-77	DIODE	10E2N			
D407	8-719-200-77	DIODE	10E2N			
D408	8-719-933-41	DIODE	HZS6C3L			
D409	8-719-912-20	DIODE	1SS120			
		< FUSE >				
F401	⚠1-532-078-00	FUSE, TIME-LAG (T1A/250V) (AEP, G, UK)				
		< INDICATOR TUBE >				
FL301	1-519-494-11	INDICATOR TUBE, FLUORESCENT				

Ref. No.	Part No.	Description				Remark
		< IC >				
IC101	8-759-603-14	IC	M5229P			
IC201	8-759-603-14	IC	M5229P			
IC301	8-759-634-51	IC	M5218AP			
IC302	8-759-991-11	IC	XR1091DCP			
IC303	8-759-820-07	IC	LC7566			
		< COIL >				
L301	1-410-521-11	INDUCTOR	100uH			
		< TRANSISTOR >				
Q101	8-729-141-26	TRANSISTOR	2SC3622A-LK			
Q201	8-729-141-26	TRANSISTOR	2SC3622A-LK			
Q401	8-729-194-57	TRANSISTOR	2SC945-P			
Q402	8-729-141-03	TRANSISTOR	2SA733-QP			
Q403	8-729-194-57	TRANSISTOR	2SC945-P			
Q404	8-729-119-79	TRANSISTOR	2SC2785-FEK			
		< RESISTOR >				
R101	1-247-903-00	CARBON	1M	5%	1/4W	
R102	1-249-441-11	CARBON	100K	5%	1/4W	
R103	1-249-423-11	CARBON	3.3K	5%	1/4W	
R104	1-249-423-11	CARBON	3.3K	5%	1/4W	
R105	1-249-441-11	CARBON	100K	5%	1/4W	
R106	1-249-421-11	CARBON	2.2K	5%	1/4W	
R107	1-249-429-11	CARBON	10K	5%	1/4W	
R108	1-249-441-11	CARBON	100K	5%	1/4W	
R109	1-249-413-11	CARBON	470	5%	1/4W	
R110	1-249-413-11	CARBON	470	5%	1/4W	
R201	1-247-903-00	CARBON	1M	5%	1/4W	
R202	1-249-441-11	CARBON	100K	5%	1/4W	
R203	1-249-423-11	CARBON	3.3K	5%	1/4W	
R204	1-249-423-11	CARBON	3.3K	5%	1/4W	
R205	1-249-441-11	CARBON	100K	5%	1/4W	
R206	1-249-421-11	CARBON	2.2K	5%	1/4W	
R207	1-249-429-11	CARBON	10K	5%	1/4W	
R208	1-249-441-11	CARBON	100K	5%	1/4W	
R209	1-249-413-11	CARBON	470	5%	1/4W	
R210	1-249-413-11	CARBON	470	5%	1/4W	
R211	1-247-832-11	CARBON	1.1K	5%	1/4W	
R212	1-247-832-11	CARBON	1.1K	5%	1/4W	
R213	1-249-408-11	CARBON	180	5%	1/4W	
R214	1-249-408-11	CARBON	180	5%	1/4W	
R304	1-249-429-11	CARBON	10K	5%	1/4W	
R305	1-249-431-11	CARBON	15K	5%	1/4W	
R306	1-247-885-00	CARBON	180K	5%	1/4W	
R307	1-249-429-11	CARBON	10K	5%	1/4W	
R308	1-249-417-11	CARBON	1K	5%	1/4W	
R309	1-249-419-11	CARBON	1.5K	5%	1/4W	

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

MAIN | PIN JACK | VR (L) / (R) | SW | POWER

Ref. No.	Part No.	Description			Remark
R310	1-249-441-11	CARBON	100K	5%	1/4W
R311	1-247-881-00	CARBON	120K	5%	1/4W
R312	1-247-881-00	CARBON	120K	5%	1/4W
R313	1-249-432-11	CARBON	18K	5%	1/4W
R314	1-247-903-00	CARBON	1M	5%	1/4W
R315	1-249-441-11	CARBON	100K	5%	1/4W
R401	⚠1-249-455-11	CARBON	4.7	5%	1/4W F (US, CND)
R402	⚠1-249-455-11	CARBON	4.7	5%	1/4W F (US, CND)
R403	1-249-425-11	CARBON	4.7K	5%	1/4W
R404	1-249-425-11	CARBON	4.7K	5%	1/4W
R405	1-249-409-11	CARBON	220	5%	1/4W
R406	1-249-426-11	CARBON	5.6K	5%	1/4W
R407	1-247-885-00	CARBON	180K	5%	1/4W
R408	1-249-437-11	CARBON	47K	5%	1/4W
R409	1-249-441-11	CARBON	100K	5%	1/4W
R412	1-249-421-11	CARBON	2.2K	5%	1/4W
R413	1-249-414-11	CARBON	560	5%	1/4W
		< COMPOSITION CIRCUIT >			
RB301	1-233-081-11	COMPOSITION CIRCUIT BLOCK (100Kx7)			
RB302	1-233-081-11	COMPOSITION CIRCUIT BLOCK (100Kx7)			
RB303	1-233-081-11	COMPOSITION CIRCUIT BLOCK (100Kx7)			
		< VARIABLE RESISTOR >			
RV101	1-238-113-21	RES, VAR, SLIDE 50 (60Hz)			
RV102	1-238-113-21	RES, VAR, SLIDE 50 (150Hz)			
RV103	1-238-113-21	RES, VAR, SLIDE 50 (400Hz)			
RV104	1-238-113-21	RES, VAR, SLIDE 50 (1KHz)			
RV105	1-238-113-21	RES, VAR, SLIDE 50 (2.4KHz)			
RV106	1-238-113-21	RES, VAR, SLIDE 50 (6KHz)			
RV107	1-238-113-21	RES, VAR, SLIDE 50 (14KHz)			
RV201	1-238-113-21	RES, VAR, SLIDE 50 (60Hz)			
RV202	1-238-113-21	RES, VAR, SLIDE 50 (150Hz)			
RV203	1-238-113-21	RES, VAR, SLIDE 50 (400Hz)			
RV204	1-238-113-21	RES, VAR, SLIDE 50 (1KHz)			
RV205	1-238-113-21	RES, VAR, SLIDE 50 (2.4KHz)			
RV206	1-238-113-21	RES, VAR, SLIDE 50 (6KHz)			
RV207	1-238-113-21	RES, VAR, SLIDE 50 (14KHz)			
		< SWITCH >			
S101	1-572-705-11	SWITCH, PUSH (2 KEY) (TAPE/EQUALIZATION)			
S102	⚠1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)			
		< TRANSFORMER >			
T1	⚠1-450-589-11	TRANSFORMER, POWER (US, CND)			
T1	⚠1-450-590-11	TRANSFORMER, POWER (AEP, G, UK, AUS)			
T1	⚠1-450-591-11	TRANSFORMER, POWER (E)			

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
13	⚠1-551-188-XX	CORD, POWER (E)	
13	⚠1-555-750-00	CORD, POWER (AEP, G)	
13	⚠1-556-035-00	CORD, POWER (UK)	
13	⚠1-558-945-11	CORD, POWER (POLAR. SPT-1) (US, CND)	
13	⚠1-559-912-11	CORD, POWER (AUS)	
14	⚠1-569-007-11	ADAPTER, CONVERSION 2P (E)	
16	1-590-036-11	WIRE, FLAT TYPE (13 CORE)	
17	1-575-666-11	WIRE, FLAT TYPE (11 CORE)	
1-CNJ1	⚠1-526-751-00	OUTLET, AC (UK)	
1-CNJ1	⚠1-526-794-11	OUTLET, AC (AEP, G)	
1-CNJ1	⚠1-526-882-00	OUTLET, AC (US, CND, E)	
1-F401	⚠1-532-078-00	FUSE, TIME-LAG (T1A/250V) (AEP, G, UK)	
1-S1	⚠1-570-046-21	SWITCH, VOLTAGE CHANGE (E)	

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ACCESSORY & PACKING MATERIAL

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1-558-271-11 CORD, CONNECTION
1-559-533-11 CORD, CONNECTION
3-753-136-11 MANUAL, INSTRUCTION (CND, AEP) (ENGLISH, FRENCH, SPANISH, PORTUGUESE)
3-753-136-21 MANUAL, INSTRUCTION (US, UK, AUS) (ENGLISH)
3-753-136-41 MANUAL, INSTRUCTION (AEP, G) (GERMAN, DUTCH, SWEDISH, ITALIAN)
3-753-136-51 MANUAL, INSTRUCTION (E) (CHINESE)
* 4-910-820-01 CUSHION
* 4-910-823-11 INDIVIDUAL CARTON

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HARDWARE LIST

# 1	7-682-548-09	SCREW +BVTT 3X8 (S)
# 2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S
# 3	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S (E)
# 4	7-621-849-00	SCREW, TAPPING

Note:
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Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.